FFFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFFFFFFF	111111	111111	XXX	XXX
FFF	111111	111111	ŶŶŶ	âââ
FFF	111111	111111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	1111	111	XXX	XXX
FFF FFFFFFFFFFFF	1111	111	XXX	XXX
FFFFFFFFFF	111	111		XX
FFFFFFFFFF	iii	iii		χχ
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
fff	!!!	1111	XXX	XXX
FFF	1111	111	XXX	XXX
FFF	111111111	111111111	XXX	XXX
FFF	111111111	111111111	âââ	âââ
FFF	111111111	111111111	XXX	XXX

_\$25

Symb 10-0 10-0 10-0 10-5 10-5 K1CL

KILL KILL LB E LB E LB E LB E LOCA LOCA

MAKE MAKE MAP MAP

MAP MARI MARI MARI MARI MARI

EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	XX		######################################	00000000 00000000000000000000000000000	BBBBBBBB BBBBBBBB BB BB BB BB BBBBBBBB BBBBBB
LL		\$			

EXTH VO4-

VAX-11 Bliss-32 V4.0-742 Pa DISK\$VMSMASTER:[F11X.SRC]EXTFCB.B32;1

8901234567890123456789012345678901234567 0030

MODULE EXTFCB (LANGUAGE (BLISS32), IDENT = 'V04-000'

BEGIN

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FACILITY: F11ACP Structure Level 2

ABSTRACT:

This module contains a routine which will build the extension fcb chain for the given fcb, if necessary.

ENVIRONMENT:

VAX/VMS operating system, including privileged system services and internal exec routines. This routine must be called in kernel mode.

AUTHOR: Andrew C. Goldstein, CREATION DATE: 25-Jul-1977 10:55

MODIFIED BY:

CDS0005 Christian D. Saether 29-Aug-1984 Add optional second argument to BUILD_EXT_FCBS V03-007 CDS0005 to specify primary fcb other than PRIMARY_FCB.

V03-006 CDS0004 Christian D. Saether

21-Aug-1984

EXTH

: Ro

```
EXTFCB
VO4-000
                                                                                                                   16-Sep-1984 00:26:27
14-Sep-1984 12:30:23
                                                                                                                                                              VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER: [F11X.SRC]EXTFCB.B32;1
                                           GLOBAL ROUTINE BUILD_EXT_FCBS (PRIMHDR, PFCB) : L_NORM NOVALUE =
     923
945
967
990
1001
1007
1007
1008
1100
1111
                             1081
1082
1083
1084
1085
1086
1087
1088
1090
1091
1093
1096
1097
1098
1099
1100
                                              FUNCTIONAL DESCRIPTION:
                                                         Build the extension fcb chain starting with the primary fcb and header. Update the size in the primary fcb. Turn the header back when done.
                                              SIDE EFFECTS:
                                                         new FCBs created, primary fcb modified
                                          BEGIN
                                           MAP
                                                         PRIMHDR
                                                                                      : REF BBLOCK;
                                                                                                                   ! file header arg
     112
                                          BIND_COMMON;
                             1102
1103
1104
1105
1106
1107
     114
                                          EXTERNAL ROUTINE
                                                         CREATE FCB
NEXT_HEADER
                                                                                      : L_NORM, : L_NORM,
                                                                                                                   ! create a new FCB
     116
                                                         READ_HEADER
                                                                                      : L_NORM;
     119012345678901234567890124445678
111022345678901234567890124445678
                            1108
1109
1110
                                          LOCAL
                                                         FCB
PRIMFCB
                                                                                         REF BBLOCK,
                                                                                         REF BBLOCK,
                                                         NEW FCB
HEADER
                                                                                      : REF BBLOCK,
                            1112
1113
1114
1115
1116
1117
                                                                                      : REF BBLOCK,
                                                         NEW_HEADER
                                                                                      : REF BBLOCK;
                                          IF ACTUAL COUNT EQL 2 THEN
                                                  BEGIN
                            1118
                                                  PRIMFCB = .PFCB;
                                              This is a flag for READ_HEADER to tell it not to update FILE_HEADER. This prevents it from being set when dealing with directory headers. The flag is a one-shot cleared by READ_HEADER (which may be called by NEXT_HEADER).
                            1120
1121
1122
1123
1124
1125
1126
1127
1128
1129
1130
                                                  STSFLGS [STS_LEAVE_FILEHDR] = 1;
                                                  END
                                          ELSE
                                                  PRIMFCB = .PRIMARY_FCB;
                                          FCB = .PRIMFCB;
                                          HEADER = .PRIMHDR;
                             1132
1133
1134
1135
1136
1137
                                           UNTIL (NEW_HEADER = NEXT_HEADER (.HEADER, .FCB)) EQL O
                                          DO
                                                  HEADER = .NEW_HEADER;
```

EXTH

: Si : Ru : El : Li : Le : Me

```
D 6
16-Sep-1984 00:26:27
14-Sep-1984 12:30:23
EXTFCB
VO4-000
                                                                                                                                   VAX-11 Bliss-32 V4.0-742
DISK$VMSMASTER:[F11X.SRC]EXTFCB.B32;1 (2)
    151555578901234567890123455678901234567890123456789012345678901234567890123456789012345678901234567890123
                                          IF ACTUALCOUNT EQL 2
                                          THEN
                                                NEW_FCB = CREATE_FCB (.HEADER, .PRIMFCB)
                                                NEW_FCB = CREATE_FCB (.HEADER);
                                         CURRENT_VCB [VCB$W_TRANS] = .CURRENT_VCB [VCB$W_TRANS] + 1;

NEW_FCB [FCB$W_REFCNT] = 1;

NEW_FCB [FCB$L_LOCKBASIS] = .PRIMFCB [FCB$L_LOCKBASIS];

NEW_FCB [FCB$L_STVBN] = .NEW FCB [FCB$L_STVBN] + .PRIMFCB [FCB$L_FILESIZE];

PRIMFCB [FCB$L_FILESIZE] = .PRIMFCB [FCB$L_FILESIZE]
                                                                                    + .NEW_FCB [FCB$L_FILESIZE];
                                         FCB [FCB$L_EXFCB] = .NEW_FCB;
FCB = .NEW_FCB;
                                       Set it up for the next NEXT_HEADER or the possible READ_HEADER if we drop out of this loop.
                                          IF ACTUAL COUNT EQL 2
                                               STSFLGS [STS_LEAVE_FILEHDR] = 1;
                                         END:
                                    IF .FCB NEQ .PRIMFCB
                                   THEN
                                         HEADER = READ_HEADER (0, .PRIMFCB);
                                         PRIMFCB [FCB$L_EFBLK] = ROT (.BBLOCK[HEADER[FH2$W_RECATTR], FAT$L_EFBLK], 16);
                                         IF .PRIMFCB [FCB$L_EFBLK] NEQ 0
AND .BBLOCK[HEADER[FH2$W_RECATTR], FAT$W_FFBYTE] EQL 0
                                               PRIMFCB [FCB$L_EFBLK] = .PRIMFCB [FCB$L_EFBLK] - 1;
                                          IF .PRIMFCB [FCB$L_EFBLK] GTR .PRIMFCB [FCB$L_FILESIZE]
                                               PRIMFCB [FCB$L_EFBLK] = .PRIMFCB [FCB$L_FILESIZE];
                                         END:
                                   STSFLGS [STS_LEAVE_FILEHDR] = 0;
    194
                                   END:
                                                                                               ! end of routine BUILD_EXT_FCBS
                                                                                                               .TITLE
                                                                                                                          \V04-000\
                                                                                                               .EXTRN
                                                                                                                          CREATE_FCB, NEXT_HEADER READ_HEADER
                                                                                                                          SCODES, NOWRT, 2
                                                                                                               .PSECT
```

007C 00000

**F1

: 1081

.ENTRY BUILD_EXT_FCBS, Save R2,R3,R4,R5,R6

				16-Sep-1	1984 00:26: 1984 12:30:	27 VAX-11 Bliss-32 V4.0-742 DISK\$VMSMASTER:[F11X.SRC]EXTFCB.B32	Page 5 2;1 (2)
	02		6C 91 0	00002	CMPB BNEQ	(AP), #2	; 1115
A6	52 AA	08	0A 12 0 08 88 0 04 11 0	00005 00007 0000B 0000F	MOVL BISB2	1\$ PFCB, PRIMFCB #8, -90(BASE) 2\$	1118
	52 55 54	08 04	AA DO 0	00011 1\$: 00015 2\$:	BRB MOVL MOVL MOVL	8(BASE), PRIMFCB PRIMFCB, FCB PRIMHDR, HEADER #^M <r4,r5> #2, NEXT HEADER RO, NEW_READER</r4,r5>	1118 1125 1115 1128 1130 1131
0000G	CF 56		AA DO 0 52 DO 0 30 BB 0 02 FB 0 49 13 0	0001C 3\$: 0001E 00023	MOVL PUSHR CALLS MOVL	#^M <r4,r5> #2, NEXT_HEADER RO, NEW_READER 6\$</r4,r5>	1133
	54 02		56 DO 0 6C 91 0 0B 12 0 52 DD 0 54 DD 0	0001E 00023 00026 00028 0002B	MOVL BEQL MOVL CMPB BNEQ PUSHL	NEW_HEADER, HEADER (AP), #2	1136 1138
0000G	CF		54 00 0	0030	PUSHL PUSHL CALLS BRB	PRIMFCB HEADER #2, CREATE_FCB 5\$	1140
0000G	CF 53 50	QR.	54 DD 0 01 FB 0 50 DO 0	0034 00039 0003B 4\$: 0003D 00042 5\$:	PIICHI	HEADER #1, CREATE FCB R0, NEW FCB -104(BASE), R0 12(R0) #1, 24(NEW FCB)	1142
18 40 20 38 00	A3 A3 A2 A5 502	98 00 40 38 38	A2 C0 0 53 D0 0	00045 00049 00040 00050 00055 00058 00063 00066	MOVL MOVL INCW MOVL ADDL2 ADDL2 MOVL MOVL CMPB BNEQ	56(PRIMFCB), 76(NEW_FCB) 56(PRIMFCB), 44(NEW_FCB) 56(NEW_FCB), 56(PRIMFCB) NEW_FCB, 12(FCB) NEW_FCB, FCB (AP), #2	1145 1146 1147 1149 1150 1151
A6	AA 52		08 88 0 AB 11 0 55 D1 0 28 13 0	0006B	BISB2 BRB CMPL	3\$ #8, -90(BASE) 3\$ FCB, PRIMFCB	1159 1133 1163
0000G 1C	CF 54 A4	20	528 D1 00 528 DD 00 528 DD 00 528 DD 00 520 DD	0006F 00071 6\$: 00076 00078 00078 00078 00082 00082 00088 00088 00080 00087 00097 00097 00099 00098 00092 00098 00098	BEQL PUSHL CLRL CALLS MOVL ROTL BEQL TSTW	PRIMFCB -(SP) #2, READ_HEADER R0, HEADER #16, 28(HEADER), 60(PRIMFCB) 7\$ 32(HEADER) 7\$	1166 1168 1170 1171
38	A2	3C 3C	A4 B5 0 03 12 0 A2 D7 0 A2 D1 0 05 15 0	0008D 0008F 00092 7\$:	DECL	7\$ 60(PRIMFCB) 60(PRIMFCB), 56(PRIMFCB) 8\$	1173 1175
3C A6	A2 AA	38	A2 D0 0 08 8A 0 04 0	0099 009E 8\$:	BLEQ MOVL BICB2 RET	56(PRIMFCB), 60(PRIMFCB) #8, -90(BASÉ)	1177 1181 1183

[;] Routine Size: 163 bytes, Routine Base: \$CODE\$ + 0000

3C A2

^{: 195 1184 1} : 196 1185 1 END : 197 1186 0 ELUDOM

16-Sep-1984 00:26:27 14-Sep-1984 12:30:23

VAX-11 Bliss-32 V4.0-742 Pa DISK\$VMSMASTER:[F11X.SRC]EXTFCB.B32;1

PSECT SUMMARY

Name

Bytes

Attributes

\$CODE\$

163 NOVEC, NOWRT, RD , EXE, NOSHR, LCL, REL, CON, NOPIC, ALIGN(2)

Library Statistics

File

----- Symbols -----Loaded Percent Total

27

Pages Mapped Processing Time

18619

1000

00:02.0

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$:EXTFCB/OBJ=OBJ\$:EXTFCB MSRC\$:EXTFCB/UPDATE=(ENH\$:EXTFCB)

163 code + 0 data bytes 00:17.5 00:30.5 4075 Size:

_\$255\$DUA28:[SYSLIB]LIB.L32;1

Run Time: Elapsed Time: Lines/CPU Min:

: Lexemes/CPU-Min: 50577 : Memory Used: 218 pages : Compilation Complete

EXTI VO4-

0170 AH-BT13A-SE

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